

## IN THE SPECIFICATION:

Please replace the existing title with the following title:

--ANTIBODIES TO HUMAN ION CHANNELS--

RECEIVED

Please replace the table beginning on page 84, line 25 and ending on page 102 AUG 04 2003  
with the following table:

TECH-CENTER-1600/2900

Table 5

The following DNA sequence Ion31 <~~SEQ ID NO:~~ SEQ ID NO: 1> was identified in *H. sapiens*:

CCCTCCTCCCTGGCCCCGGGTGCCCTTTCTCCTCCTGAAGTGGGAGGAGCCATACTGATGAGGGGGGT  
GCCACTGGCAGGGGAGCAAGTCATTCATCATGAGCAGGAAGACGTTGTAGCCCAGCAGAAGTGTATC  
TTGAATGGGGCAGCATTCTCGCTCTCTGCTGGCAGGTAGAAGCTGAGGGCATCAATGGCAACCAGAAA  
GCTACTGGGCACCAGCAGGTTTATGATGTAGAGGCTTGGCCTGCGCCTGATGGCCACCTGGAGAGAGA  
CCGGAGAAGATGGCAAATAAATAGATGTCAGAGGGCTCAATTTGTATATCTGACCCCTAATCTTTGCC  
AATGTGCTGTGAGGCTGCTGGGGACGATCTTTTTAAGTAACACTTTTGCATATAATTGTGCTCGCCTA  
CATAGGGGCCTCTGATTTGTTGTCTAATTTTTATTCTTTTAACTACTAGGAACACAATGACTGTA  
GAATTTTAGGTGCAAGTGGGCCCTTTAAGTCATTCTGAGCAGTAGGGGTGAGCTGATCCATTCTGAGC  
AGCAGGGCTTATTACAGTCCAGCCATTCCT

The following amino acid sequence <SEQ ID NOS. 52> is a predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID NO:~~ SEQ ID NO: 1:

<SEQ ID NO: 52>

VAIRRRPSLYIINLLVPSSFLVAIDALSFYLPASENRPFKITLLLGYNVFLMMNDLL

The following DNA sequence Ion32 <~~SEQ ID NO:~~ SEQ ID NO: 2> was identified in *H. sapiens*:

AGAAGAAAACAGTGACTGGTCCCAAGTAAGTCTGAAACCCAACAGGAGGAAACAACATGAAATGTTAC  
GGCTTGAGAATAATCATTGGCTCAATGTTCTGCCCTCCAGGCCCACTAAGGTGATAGTGCCACCTTCA  
GGACACAATGTGGTAGCAGCCCTGCCCTGTGGCTTTGGGTGGCCTTGCCCTGAGGCAGCCATGTGCT  
TGTGCCTTGCTCCTGCCTCCACAGTAGCTCTGTGCCTGGGTCATGCATCTGAGGCTCTCCTGGAAACC  
ACCACTGGTGACTCTACTGGTCTGGACTCATGGGCCTAGTGGGGGCCCTCTGTAGTGGCCCTTCCCCA  
ACAGTGATTCTCCGTCTCAGCCCCATGGCTCTCTGGGGCATCCTTTTAATTCTGGGGGAAGGCAGCC  
ATGCCCCACATCTTTCTACTCAAGGGCCCGTGATGGGATGGGTAGCTGTGATGA

The following amino acid sequence <~~SEQ ID NO:~~ SEQ ID NO: 53> is a predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID NO:~~ SEQ ID NO: 2:

<SEQ ID NO: 53>

SAPWLSWGILLILGEGSHAPTSFYSR

The following DNA sequence Ion33 <~~SEQ ID NO:~~ SEQ ID NO: 3> was identified in *H. sapiens*:

TATACTATACATAAAACAATTAGAGAACAATAAGTGCTAAATTAAGTTTTCTGGCAATGGTTTCTGA  
TTATATATTTGTTTGATTTTAAAGGTATACATGCATGTAGTTTCAGAGTTAGAAGGCAAAGTAGTTCT

ATAAACCTTGTAACAAAAATAGCAATTCTTGAGGCCTGCATCATCTTAGGTTTCAGCTTTTCAGAGGCA  
ACACTTTAAATTGTTTCAGCTGGTAATGTTCTAGGACTGTACCTCCATATCTCTATAACACAGATGTA  
TGGTTTTTTTTTATTAGGCATTATCCATGGACTTTTCATTATGAAAGATGAAGATTTCTGCCCTAACC  
CCACACCCCTACTCCCCACCACACACAATTGTCTTCT

The following amino acid sequence <SEQ ID NO: 54> is a predicted amino acid sequence derived from the DNA sequence of SEQ ID NO: 3:

<SEQ ID NO: 54>  
RTVPPYLYNTDVWFFFIRHYPW

The following DNA sequence Ion34 <SEQ ID NO: 4> was identified in *H. sapiens*:

CCGGCCTTCCCGTGCCCTCACAGTCCTCCTCCTCAGCTGTTTCAGCTAAAGTCCCAGGATTAATGCTT  
ATTGGCTGGCTTGGGCCTGAACTGAACTCCCTGAACTGAGGCTAGCAGGATGAAATGCTCTAATCAGC  
CAGATGTGAGTCATTACCCCCCTCCTGGAGCCTGGGGACCTGTGGGTGTCAACCCTGCCAAG  
TGACCTGGACAGAACACAGAGGAGCAGAACTCCCCAGAGGGAAGTGGGGGTGGAGGGA  
CACAGAGCCAGCAGGGCCACCGGAAGGAGGCCCTTGCAATTTCTGCACATCCACCCAGCCAGGAGGAGA  
CAGCTAGGCCAGGGGTGCGGCAGTGCCTGCAAGGCGTTTTCTTGCAAGGAGGCTGGTGTTCACAG  
GGGACAGGAAATGTGGGTGAACTCAGCCGTTTTCTTGCGGGGGCAGAATGTACAGGCTGATACAGTG  
ACCGCAGAAGCTGCTGGGTCCCCCTGTGGGTGGTGGCAGTGAAGACCCCGTCTGCCCCCTGCA  
CAGCTCCTTGGGCTTCCAAATATTTGTCTGTGCTGACAGCTT

The following amino acid sequence <SEQ ID NO: 55> is a predicted amino acid sequence derived from the DNA sequence of SEQ ID NO: 4:

<SEQ ID NO: 55>  
GRRGSSLPQNPTGGPSSFCGHCISLYILPPQR

The following DNA sequence Ion35 <SEQ ID NO: 5> was identified in *H. sapiens*:

CCTTTCATCAATTCTTGAAAATTCTTAGGCTTTATGTTTCAAATATTGCCTCTTCTCTTTTCTTTTA  
CTTTTGGGAACTCCCATATGTATATGATGGACTTTCTTATTCTGTCTTTCTATCTTTTCCATAT  
TTTCCACTTTTATATTGGTCTCCTTTTCTTAGAATTTCTCAAATCTCT

The following amino acid sequence <SEQ ID NO: 56> is a predicted amino acid sequence derived from the DNA sequence of SEQ ID NO: 5:

<SEQ ID NO: 56>  
LLLLGNSHYVDGLSYSVFPIFFHIFHFLYWSPPS

The following DNA sequence Ion36 <SEQ ID NO: 6> was identified in *H. sapiens*:

TCTGTGTGTTTACCCAGGGGACTGCCGCATGGCCCATGCCGAGCAGAACTGATGGACGACCTTCTGA  
ACAAAACCTGTTACAACAACCTGGATCCGCCCAGCCACAGCTCCTCACAGCTCATCTCCATCCAGAC  
GGCGCTCTCCCTGGCCCACTGCATCAGCGTGGTAGGTGCAGAGGGTACCTGTGGCTCAGGCTCAGGTG  
AAGAGGCAGCTCATGCCCAAGCCCTAAGCAGTCAATGTCCAGAGGAATGAAATGACTAGAGTTGA

The following amino acid sequence <~~SEQ ID NO:~~ SEQ ID NO: 57> is a predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID NO:~~ SEQ ID NO: 6:

<SEQ ID NO: 57>  
GDCRMAHAEQKLMDDLLNKTCYNNLDPPSHQLLTAHL

The following DNA sequence Ion37 <~~SEQ ID NO:~~ SEQ ID NO: 7> was identified in *H. sapiens*:

CCCTTGTGATTTCAGACATCTGCCCTGGGACCCACAGTAGGTTCCGAGGGAGACGTTTCAGCCTGGGCTG  
GCCTGGGGATAGCCTAAAGTGGGGGTGCCATGGGAGGGGCTGAGTGCTTGGCAGCTTAGAAGGGTCCT  
GGGGAAAAGCTTCCAGGGCAGCGTGGCAACCAGTTATGTGGTAGGGAGAGGGGATCACTACACCCCC  
ACAGCTAAGGGCAAGTCTAGAGAGGGGTAAGAGAGAGGAGGGGCCAGATAGGCAGTACTTGTATAG  
AGTACGATGTCTGGCCGCCACACAAGACTGCTGGGGATGCGGATGGCATCCAGGCCACCATAGGCATT  
GGGGTCCCATCGTAGGTAGGCATCTGTCCACTCCTGCCGTATCCACAGATACAGGGTCAGCACCTGGT  
TCCGTTTCATCTAGTGGGGGCAGGGAATGGCAGAGATGTGGACATGTATATGCATATCCTGCCCTGTC  
TGTGCACACTCCCCTGCAGGGCTCTGGTCAGCACCCACAAACCTGACTTGTCCATACCGTCCAGTTCC  
CACCCAGACCTGACCTTGCCATGTGACCTTAGTGGGCTCTTCTCTTTTCTGCCCGTTTCTCAGCAGG  
AATATGGGGTGAGAATCCCTGCTTA

The following amino acid sequence <~~SEQ ID NO:~~ SEQ ID NO: 58> is a predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID NO:~~ SEQ ID NO: 7:

<SEQ ID NO: 58 >  
DERNQVLTLYLWIRQEWTDAYLRWDPNAYGGLDAIRIPSSLVWRPDIVLYNK

The following DNA sequence Ion38 <~~SEQ ID NO:~~ SEQ ID NO: 8> was identified in *H. sapiens*:

CCTCTTAGTTTGTAAATCAGCCACCCTATTTTTTTTTTTTTTCCAAAAGCAAATTGTTCTTTGCAAGAAC  
AATTCTATTGACTTCAAATTACTCTTGCTATAGGTCCTTTTTCGAAGTATCGTCATGACATGTACACACA  
GACTTGAGGGAAAAAAGTGCTTTTCTGAAAAAGTAATGATTGAAATTTTATTTTAAATGATTCCTTA  
GATTGAATTCACTTTAGATTAACAGATTTTCTGCCCAATTGATTTTCTGGCATCCATGCAGTGATCC  
AGCAGAGATAAAATGGGGGTTCAATTTAGTCCATGGCTCCAAGGAAAAGTGAGAGCCTGGCAAAGAGAG  
CCAGCAAAGCTTCTTTCTTGCTGCTCGGTTGGAGCAGGACAACTGGAGCCGGTCAGCTGCTGACCAG  
ATGCTGCCTTCAATTAATATTCCAACCCTCAAAGACATTTATCGCTTACTCTCGAAAGCAGAGCAGCT  
GAGTAATAAAGGGAACCACTAAAGCTGTTTTTTTTTCAAGAGCATTTATAATGGCTAAATTGCTTGAA  
ATAAATTAGCACGAAAAATAACATAGTTTGTACAGTATCTGTAAAACAAATTTCCAATCTTGGGAAA  
ATAGAGCGACAAAGTGGGAGCTTGCAAT

The following amino acid sequence <~~SEQ ID NO:~~ SEQ ID NO: 59> is a predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID NO:~~ SEQ ID NO: 8:

<SEQ ID NO: 59>  
HFVALFSQDWKFVLQILYKLCLFFVLI

The following DNA sequence Ion39 <~~SEQ ID NO:~~ SEQ ID NO: 9> was identified in *H. sapiens*:

CAAGTGCAGGCCAATATATTGGTGTGGTCCTAACTCCAAGTGGTTTTAGGCCATATTTAATATCTGTC  
TGCCAAAAGGCTATCAAGGGGTACTTTTCTGGTGACACCTTGTTAAATCAAGAATGGGGGGATAGGCT  
GTGGTTATTAGGGTCACAAATGGGAGTGGGAGGATCAAGGTTTAAAGAAGAATGGAAAGGGTGGGAGA  
GGCCGACAGGACAAGCTCACCGTCACTCACCTCTGTCCCTCACTGCCCTGATGCAGGTATGGGACAAT  
CCTTTCATTAATTGGAACCCAAAAGAGTGTGTTGGCATCAATAAACTCACAGTATTAGCTGAAAACCT  
GTGGCTCCCAGACATCTTCATCGTGAATCGTGCATGATGCAGGCTGGGGAAGCCAGCGTGAAACCTCA  
TCTGCCGAGAACAGCCTAGGGTCAGCACAGGGCATGGGGCCACCGAAAGATTGAGACAGGCACACAGT  
CTCAACGAACTGACTTCCACACATCACTACGAGTAGAAGAGGCGAGAGAGTGACATTAAAGAAAGAGC  
CCAGGGCCAGGCGCGGTGGCTCACGCCTG

The following amino acid sequence <SEQ ID NO: 9> is a predicted amino acid sequence derived from the DNA sequence of SEQ ID NO: 9:

<SEQ ID NO: 60>  
LMQVWDNPFINWNPKECVGINKLTVLAENLWLPDIFIVES

The following DNA sequence Ion40 <SEQ ID NO: 10> was identified in *H. sapiens*:

CAATTATATACCTGTGTCTTTAATCCCTGAGAGCAGAATGATGAATATTTGAGCCCCAGTATATCATA  
TATACATGTAATTAATTTTTAAAGGTAGTTCAATATTCAAATTTATTGCAAAGTGCCCAAGAACAGT  
GCAAGTGTGACGACTTATAAATAGAACTACATTGACTATTTACATTAGGTTCTTGAGGATTGAAATA  
ACATTCTTCTGTTTTTCCATAAATGACAGGCTTATATACATAGACTTGAGTTAAAAATTGACCAAT  
ATTAAGTCCCATGAGCCCGTGGTGAACAAATTATTGCTGTCATCTCAAACACAATAATTAATAGATTA  
ATTACTAGGATTTACCAAAATGGCTTTTTGAAGATCTATTTTAAATGTTCTTTTCTGTTAAAAAGCAGC  
TTACACAAGTTTCCATAATCTATACTGCCACTAATGATAGTACCACAGCATCTTAGTATAAAATTTCT  
GGAGTTTGAATGTTTGCCCCCTCCAAATTCACGTTGAAATTTAATTGTCATTGTAAAAAGTATTAAGA  
TATGAGACCTTTAAGAGGTGATTAGGCCACCCAGTATTATGGGTGGAATTAATGCCATTATGAAAGAA  
TGAATTTGGTTCCCTTTTCTCTGTGTCCTTTGGCCATGTAATGAGACAACAAGAAAGCCCTTGTCA  
GATGTCACCATTCTTTATATTGGACTTTCCAGCCTT

The following amino acid sequence <SEQ ID NO: 10> is a predicted amino acid sequence derived from the DNA sequence of SEQ ID NO: 10:

<SEQ ID NO: 61>  
REPNSFFHNGINSTHNTGWPNHLLKVSYLNTFTMTIK

The following DNA sequence Ion41 <SEQ ID NO: 11> was identified in *H. sapiens*:

CTTCTTATTCTTGGACTTTATAAATATTTGAACCATCACATGTATAAGTTTCAGGCCATATGTAAATAA  
GACATTGTACATACTTGATTGGTTTATTTATGCTTATTGCTTTCTCCCTATCAATTTCCCCAAAATCA  
GTGTTATGCAGATTTACTGTATTAACTACAATTCATTCCCTTCATCCTTTATAGCCATATAAATTAT  
ATTTCTGAGAGTAGCTAATATATGCTGTGATTCCCTTAAAGTCAATATACCACAGTCTGATCCAATCTA  
GGCAGAAAGATATAGTGGGTCAAATTTGGAATTTAAACATAGGGCTTCTTCAGGTTTATTTAAGCTT  
GCTAAAAAATCAAAGCCTACCAAGCTAGTTAGTCTTTCTGTGTCACACTTGCTACCAATGGAAGTTCT  
CCCTTTTTCAGAAATTAAGAGGTCCACACAGTTGTCTGGAAGAAAATGATCTTGCAAGTACATCATG  
TCTATTTCAACACCAAATTTACTAGGTTCAACATGGAGCATTCAATCAGAGTGTGTGTCTATAAGAACC  
AAGCTCACGTTCTATGTGATTATTCTGGTTGGGCCAATGAGTTGCTTGGGGCTCTGTAGGAAAGATTTA  
CAGCAAAGTAGTAAGGCT

The following amino acid sequence <~~SEQ ID NO:~~ SEQ ID NO: 62> is a predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID NO:~~ SEQ ID NO: 11:

<SEQ ID NO: 62>  
TLIECSMLNLVNLVLRHDLARSIFFQTTVWTSITSEKGELPLVASVTQKD

The following DNA sequence Ion56 <~~SEQ ID NO:~~ SEQ ID NO: 12> was identified in *H. sapiens*:

ATCAGCTGAAGGATCAAAGTCACAATTACTAGCTGTGAGTGTGCCAAGCTAACCATTTAGCACCCATG  
CCACAAGCATGCTCTGTGCTACTCAGCATCATGTACACATTCTCAGAAGTGACACAAGTTGACATCAG  
AAGTGTTTTGTATTTTCAAGTTTAGGGATTTTTCATTATAGTTATCAGTTGAGCATCTCAAATCCTGAA  
AATCCAAAACACTCCAATGAGCATTTCCTTTGAGTGTACATTGGTACTCAAAGAATTTCAAGTTTGT  
GAGCATTTTGGATTTTTCAGGTTTGGCATGTACATTAGTCCACGTTCCACTGTTACAAAGACATACCC  
AAGACTGGGTAATTTATAAAGAAAAGAGGTTTAAATGACTCACAGTTCACATGGCTGGTGAGGCCAC  
AGGAACTTACAATCATGGCGAAAAGCACCTCTTACAGGGCAGCAGGAGACAGAAGGGTGAGGAGCA  
AAGGGGAGGAGCCCCCTTATAAACCATCAGATCTCCTGAGAACTCCCTCGTTATCACAAGAACAGCA  
TGGGGGAAATCACCCCATGATCCCATCTCCTAGGATTCTACTGGATCCAGCACTGTCCAATAGATTT  
TTTTTTT

The following amino acid sequence <SEQ ID NOS. 63> is a predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID NO:~~ SEQ ID NO: 12:

<SEQ ID NO: 63>  
CISDLGIFHYSYQLSISNPENPKHSNEHFLVSHWYSKNFRFW

The following DNA sequence Ion57 <~~SEQ ID NO:~~ SEQ ID NO: 13> was identified in *H. sapiens*:

GACCATTTAGGTGGCTATGGTCATAATCATGAAAGCTTGGACACAGTGGTGGTGGTGCAGGTGATGAG  
GTTTGGAGCAAAGGATGACGTGATCTGACTGAGGCTTAATAGGATCATTCTGGTTTCTGGGGATGAGA  
AAGTAAATTTGTAGATATTTTGAAGCATTCTCTGTTGGCCTGAATGGCAGGAGTATGTGTGAAAAAG  
GAAGAAGGAATCCATAGACTTGCTATTTGAGTTTAGAAAAGGTTTGGCCTCATCAAGGTATACTCGG  
TCACTGGGCGTGTGAAAAAAGATGGCCGAGGGAGAAATTCCTAGAAGGGGAAAATAGGGAGGGAGGACA  
TGGGAGGATAACAGACTCCTAAATACATGTGGTTGAGTTTCAATTGGTTGTGCATATGGAAATTACCCCT  
ACCTCAAACCATCACACAAATGATGAATTTAAGATATCAG

The following amino acid sequence <~~SEQ ID NO:~~ SEQ ID NO: 64> is a predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID NO:~~ SEQ ID NO: 13:

<SEQ ID NO: 64>  
SSHVLPPYFPLLGLPRPSFFTRPVTEYTLMRPKPFLNSNSKSMDSFFLFHTYSCHS

The following DNA sequence Ion58 <~~SEQ ID NO:~~ SEQ ID NO: 14> was identified in *H. sapiens*:

ACTCCTGAAATCCTAGCCCGGACCCTGAGCCATTCAACTCAAGCAGCCCTGAGACTAACATAGGGAG  
CTGCCTGGAGACTTCCCACAGTATTCTGAGAGGAAGCTCACACAGGGTCTTAGACAGCTCCTAA  
ATCCTAAGCAGCTACAGGAAGGCACCATTTTGAGAACACAGCCCTATCATACTGTATTCTGCTGGAG  
GGCCCAATAGCCCTGTATCTTACATCCCTGGAGCCCATTGACATTCTCCACCTTTATTACACCACC

GCAGCTGGCTCTGCTGCCAAGGCCAAAATGCAAGCCATTGTTCAGTAACCCAGCTGCCTCCAGTAGCAG  
GGCCACTGTGCATTTAAAGGCATCCCAAAAAAAGGCTATCTCACTTATAGCAGCCACCTGAGGCCAAA  
ATGTGTGCTCCCCAGCCACCTTACTGTTGCCACTGAAAGCAACCCTGCCCTCCCTAGCAGCAGGGTCC  
TGGCACAGCTGCTGCTGCTCCACCCAGGCATTCTGCCAATGGCCTGGGATCACTACATTCCGGGGCTA  
CCA

The following amino acid sequence <~~SEQ ID NO:~~ SEQ ID NO: 65> is a  
predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID~~  
~~NO:~~ SEQ ID NO: 14:

<SEQ ID NO: 65>

PETNIGSCLETSHSIHSEKLTQGPRQLLNPKQLQEGTILRTQPLSYCILLEGPIAPVSSHPWSPIDILHL  
YSPPQLALLPRPKCKPLSVTLPPVA

The following DNA sequence Ion59 <~~SEQ ID NO:~~ SEQ ID NO: 15> was  
identified in *H. sapiens*:

CTGGGCAAGCTTTAAAGTTTGGGATTTTCCACTGTCCTTTCCGGTGCGAGCATTTATTGAATTTTGCA  
GTAGTCTCCATAATTTACTGAGGAGCTACAGGAGGAGAAACAGAAACAGTTAGGATATGCCATGCTT  
TCCAAGAGGAAGTGGCAACTGCAGTGAGGATGCATTTAAACAAACCAGTGTGAGGATAGATCTCTCTA  
CGTTATGCAGATCCACTCCATTTCTAAAAGCAAGTTGAACAGCAAATTTTCAGTTGATGGGAACCTATA  
TTTGATTATTTTAAAATAGGAAAACAGTGATTACATTTATAACAGTGTAAAATTGGTAATGTATTATT  
TATAATTATTATAATCATGTGTTTCCAATCCACCAAAAGAATATGTACCAATTTGGCCAACTATCACT  
AAAATACTCTTAACTCTATAGTAAATCAACAAGGTTTTATTCAAGCTAATTACAACCCCCCCCCCTTTT  
TTTTTTTTTAGCACTTTTGCAAACCTTTAGGACTGTGCTTGTGTGTGGTATACACATTGAAATAAACAGG  
GTAATTTATTGTATTCTAACAATGGCTCCTTCTCTCCTCCTCCCTATGGAGGAATCCCCGGCAAGGAG  
GAGTGAAAGGGTCTATGAGTGCTGCAAAGAGCCCTACCCCGATGTCACCTTTCACAGTGACCATGCGC  
CGCAGGACGCTCTACTATGG

The following amino acid sequence <~~SEQ ID NO:~~ SEQ ID NO: 66> is a  
predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID~~  
~~NO:~~ SEQ ID NO: 15:

<SEQ ID NO: 66>

PARRSERVIECCKEPYPDVTF

The following DNA sequence Ion60 <~~SEQ ID NO:~~ SEQ ID NO: 16> was  
identified in *H. sapiens*:

CAGCGCATCGTCAGGTCCCCCGCGCCCCGCTGCTCACCGATGAGCGGCACGCTCTCGGCCGGTGGC  
ATGCTCTCGGCCAGCAGCAACTGGGAAGACGGTGAGCGCCAGCAGCACGGTGACGCCAGCGACACCT  
TCTCGCCTGAGTCGGCAGGCAGGTGGAAGCGAGCGGCGCAAGCAGCGAGATGAGCACGCAGGGGCAGC  
AGCAGGTTGCACACGTAGGGCGGCGGCGCGGCGCGCAGCAGCAGCGTGAAGGTGACGTGCGGGGTAGG  
GCTCGGAGCAGCAGCCGTAGGTGAGCACGCGCGCCGCGCGCCGCGCATGCCAGCACGCGCCACTCCACG  
TTCTCCACGAAGTCCGCCAGGCTGGCTGCAGCGCCGCGCGGCCGCACATCCAGTTGGTGCCCGCCGTG  
AGTCCAGGAGCCGAACGTCAAGCCGAGTGCTGGGCGTCAACCGGAAGGCTGCTACATCCACGCGGC  
ACGAGCTGCGCGTGATGGCCGGCGGTTCCAGCGCACGGCGCCATCGTGGCGCAGGACCACGTGGT  
GCTGGCGGAACCTGGAGGCTGCG

The following amino acid sequence <~~SEQ ID NO:~~ SEQ ID NO: 67> is a  
predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID~~  
~~NO:~~ SEQ ID NO: 16:

&lt;SEQ ID NO: 67&gt;

NAPAITRSSCRVDVAAFPFDAQHCGLTFGSWTHGGHQLDVRPRGAAASLADFVENV  
EWRVLGMPARRRVLTYGCCSEPYPDVTFT

The following DNA sequence Ion61 <~~SEQ ID NO:~~ SEQ ID NO: 17> was identified in *H. sapiens*:

CCTCCCCTAGCACTTGACCTTTATTAACCTCAGGTAAGCATCACCACAAACCTAGGAAGTAGGTCCTCT  
GGGTATCCCATTTGTACAAAAGGGATTTCGTATCTTGCCCCAGCTCATGCCCGTCGTTATTTGAGAGC  
GGGACTGTCTGGATTGTGTATGAGTGCAGCCTCCAGCAGTGACGGGAGCAATTAGAGAGCAGTAGCT  
TCTGATGACCCACGTGTAGGAATGAAGGATGGGGAGAACTCGGCCCTTACCTCCTTCCCTGCTTCCATC  
CATGGGGCTTGGAGGGTCTGGAGAGCTTCATGGTGGGCTTATTTCCATTTGTGCAGAGGTGGCTGGGA  
AGCTCAGGAACCACAGGCTTTTGTGTTTGTAGTCAATTGGCTTTCTCTCTCTTGCAGGGAAGTACTAC  
TGGCCACTATGACCATGGTCACATTCTCAACAGCACTCACCATCCTTATCATGAACCTGCATTACTGT  
GGTCCCAGTGTCCGCCAGTGCCAGCCTGGG

The following amino acid sequence <~~SEQ ID NO:~~ SEQ ID NO: 68> is a predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID NO:~~ SEQ ID NO: 17:

&lt;SEQ ID NO: 68&gt;

SLSLAGKYMATMTMVTFTSTALTILIMNLHYCGPSVRPVPWA

The following DNA sequence Ion62 <~~SEQ ID NO:~~ SEQ ID NO: 18> was identified in *H. sapiens*:

AGGGCCGGCTGGCTCTCAAGCTGTTCCGTGACCTCTTTGCCAACTACACAAGTGCCCTGAGACCTGTG  
GCAGACACAGACCAGACTCTGAATGTGACCCCTGGAGGTGACACTGTCCAGATCATCGACATGGTGCG  
TTGTGGTGGTGGTACAGCTGTGGAGTCTTACCTGTACAGTGTCAAGAAATGAAGGGGTGAGAGACTG  
GGATTATTTCTCCATGGAATTTCTTTCTGTAAATGTTAATATTAACAAAGGTAGCAGTTACAAACTGT  
TGGGTACTGACTGTTGGGTACTGAGTATTGGGTGCCCTACCTCGTGCCCAATATTTTGTTCACCTGAAC  
TTACTGAATCCCTGCTAAGCAGGGGATTCTCACCCTATTCCTGCTGAGGAAACGGGCAGAAAAGAG  
AAGAGCCCACTAAGGTCACATGGCAAGGTCAGGTCTGG

The following amino acid sequence <~~SEQ ID NO:~~ SEQ ID NO: 69> is a predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID NO:~~ SEQ ID NO: 18:

&lt;SEQ ID NO: 69&gt;

GRLALKLFRDLFANYTSALRPVADTDQTLNVTLEVTLSQIIDM

The following DNA sequence Ion63 <~~SEQ ID NO:~~ SEQ ID NO: 19> was identified in *H. sapiens*:

CAGTGGGATTTAGAATCCCTGGGTGAAAGTCTGGACTCTTGTGGCTTATTTGGGCCCTCTAGCATTT  
GTGGAGAGGCAGGCAGACTCCAGGTCCTTGAAAAGGGGAGGGTGGAGGAGAAATTTGTCAGCCTGGCG  
CCAGAAGATAGTACCAGTTCACCTCATGGCCTTTACCTCATGTGTCCCTGCAGGCAGGCCAGGGAGGA  
ACTAGAGCCACAGCTAGAGCAAGAGAAGGCAGACACCAGGAGGACACTCATAAGGACAGGGCCCCAGC  
CCTGGGAGTGGAGGGTGTGAGCAGAGGCCCTGGGACTAGGGCTTGGGATGGACAACCCCTCCTTACTGA  
CCCTCCAGAGTGCCTGGGAGCTGAGGGCCGGCTGGCTCTCAAGCTGTTCCGTGACCTCTTTGCCAACT  
ACACAAGTGCCCTGAGACCTGTGGCAGACACAGACCAGACTCTTGAATGTGACCCCTGGGAGGTGACAC  
TGTCACAGATCATTTCGACATGGTGCCTTGTGGTGGGTGGTACAGCTGTGGAGTCTTACCTGTCACAGT  
GTCAAGAAATGAAAGGGGTGAGAGACTGGGATTATTTCTCCATGG

The following amino acid sequence <~~SEQ ID NO:~~ SEQ ID NO: 70> is a predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID NO:~~ SEQ ID NO: 19:

<SEQ ID NO: 70>  
AEGRLLALKLFRDLFANYTSALRPVADTDQTL

The following DNA sequence Ion64 <~~SEQ ID NO:~~ SEQ ID NO: 20> was identified in *H. sapiens*:

TTAGTGACGCCCATTTATCCAAATCTTCTAACTATTCAAAAAGGGAATCCTACAAAAATAAATAATGCA  
GTATTGTTTTATTGAGTTATACCTATATGCCCCACATACTCCACCAAAGATTTATTATTGATCTATCC  
AGTCTCACCCATTTCTCTATTTTTCTATTTGTCTAATAAAGCAGTCCTCATTGTTCCTTTGTCTATC  
TGCCATCCGTCCTTCCTTCCTTCTTTCCACAGACTTCCTTCTACATCCCTGCCTCTGTCTTCCC  
CATCATCAGTACATGACATCCCTATCTACCCATTGTTTAGACATCATCCCTACACTCACTGATTCTAC  
ATTTTAATTATTTCTCAAATTCATTTACCTGGTGATTTTTCTCCATAAGCACCCCTAATCCTGACCTAT  
GATTCATCTCTATACTGAGAGTCTCTTCATATTGTTTTCTACTATTTATTACAACAATAATTATAAT  
TAGTAAGTGTGTTAATGTCTGTGTACCACTAACTATACCACAGCTCC

The following amino acid sequence <~~SEQ ID NO:~~ SEQ ID NO: 71> is a predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID NO:~~ SEQ ID NO: 20:

<SEQ ID NO: 71>  
QSHPFYFSICLIKQSSFVPLSICHPSVLPSPFPQTSFYIPAS

The following DNA sequence Ion65 <~~SEQ ID NO:~~ SEQ ID NO: 21> was identified in *H. sapiens*:

TTTACAATAAGCAAAGGTGACAGCAACCCAAGTGTCCACTGACAGGATGAACGGGTAAACAAAACATG  
GTATATACATACAATGGGAATATTATTTAGCCTTAAAAAGGAAGGAAATTCGACACATGCTACAATA  
TTATGTTAAATCAGCAAGTCACAAAAGAACAAATACTGTATGATTTCATTTATATTAAGTACTTAGGG  
TAGCCAAATTCATAGACACACAAGGTAGCATGGTGGTTGCCAGGAGCTGGGGGCAGGGGAAACGGGA  
GTTATCGTTTAAATAGATAGGAAGTTTCAGTTTGGGAAGATGGAAGGTTATGGAGATGTATGGTGGT  
GACATTTGCACAACAATATAAATATACGTAATGCCACTAAGCTGTATACTTAAGGATGGTTAAAATAG  
TAAGTTTAAATGTTATATATATTTAACCACAGTTTTTAAAAATCCAAGTTCATTGATTCTTTAA  
GTACTTCTGTACTTTCTGAAATAAAAAGATGTTCAAGCCCTTCTTATATTTTCCTTGCCCTACTCCTG  
CTGCTAGCCATTTCTTCAAGAATTCTTAGTTCCTTTTAGTAGACTCATATTTAGAAACCAAGATCTGG  
ACACTAGACATGCTCATTGCT

The following amino acid sequence <~~SEQ ID NO:~~ SEQ ID NO: 72> is a predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID NO:~~ SEQ ID NO: 21:

<SEQ ID NO: 72>  
HYVYLYCCANVTTHLHNFHLPKLLPIYTITPVSPCPQLLATMTPCVSMNLATLSTYKNHTVFLVLL

The following DNA sequence Ion66 <~~SEQ ID NO:~~ SEQ ID NO: 22> was identified in *H. sapiens*:

CTTCTGCCTCTTTTTTACATATTTCTATTTTTAAAGTTTGTGAGTCAAAGAAGTTTTCACATATCCTA  
AATGCTTATTGGAATATGTATAATTACATTTGGAATGTTGATGCATACACTTCTGTTTTTTTTGTTTTT



CTTAGAGGAAAAGGTGTATTTTCCTCCATTGATTTGTGTAAATTTTTTTTCAAAGCTTAATAAGTAT  
TTTATTTTGTCTGTTTCATTTTATGGCATTAGGACAATTTAATAATATCCAGTGTAAAGAAAAAC  
CTCTTCTTTTCAGTATAGCAAAATCCAAATAATTGAAAAGATTTTATTTGTTTTTCATGTGGAGAAAGAG  
GTGAGTCCTCCGATTTTATGAATCTCTTTAGTGCAGTAGGACATTAAATTTGCTCCCCTTTTCTACTT  
CTTGCCATCACTAACCAATTGCCAATGACACATCTTCTGTTTTGTTTCCCCAGAAGCTATCTGCAT  
TTTTAAGAGCATCTGTATTTGTATCTAGC

The following amino acid sequence <SEQ ID NOS. 73> is a predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID NO:~~ SEQ ID NO: 22:

<SEQ ID NO: 73>  
FSHILNAYWNMYNIWNVDAYTSVFLFFLEEKVYFPPLICVN

The following DNA sequence Ion67 <~~SEQ ID NO:~~ SEQ ID NO: 23> was identified in *H. sapiens*:

CCCACAAGTGTCAAAGGAAAAACGGAATAAGAATTCATTCAATAAAACAGGCCTTAAAGATGAATTTT  
TTTAAAAAAGGTAGAATAATGTTAACATGGAAAGTGAAATAGAGAGACAAAATTGAGAACTAGGC  
AACATTACAGAGTTACCAAGTTAACCATAAAGGGAAAGGAATGTAGTAATGGCAAAGAGAAAAATCCTT  
GAGATAATTACTCTGAATTCAGAAAAAAGGAGACAAGGAATAATCACAGAGTTGATGAAAAA  
GATGGAAGGCAGAGATGATACAACATAGGAATAATTGGTTTCCTTTAATTAGGGACCCATACTAATGG  
AACAGAAATAAGTTTACAGAAAACCTTTCCCTAAAGGAAGGAAGAAATAAACTATATATTGAAATGAC  
GTGTGGTATATAAGAAAAAACTGATTGATAAAGAAGAATTTACATGGAAACCTCACTTCAAATAAAA  
TCTGAAGACCTTCAATTGCCTCAAAGCCCAAGGTGACACATATGTCCATTGCCTCTGTGACTTCATCT  
CATATTTATTCTTGAAGAAGTCACTCTTCACTGGCCATGCTTATCTTCCTTGCTGTCACTCAATATG  
TCAGTGACAATAATGCCCATGGTC

The following amino acid sequence <~~SEQ ID NO:~~ SEQ ID NO: 74> is a predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID NO:~~ SEQ ID NO: 23:

<SEQ ID NO: 74>  
ETNYSYVSSLPSIFFINSVIIPCLLFFSEFRVIISRIFSLP

The following DNA sequence Ion68 <~~SEQ ID NO:~~ SEQ ID NO: 24> was identified in *H. sapiens*:

ATAGTCAAACCAAACTGTATATGTACTTTAACTCCCATGGTTTCCCATTTCATTAAGCAGAAATTGAA  
TGTGGAAAGGGCCAAATATTCTATTTTTCTCCACCTACCTTCCTTTTTCAGGGTGATTTTCTTTGAGT  
TTGGAGAATGGGTTCTGGAACTGTAAAAGGCAGAAAATAATATTTATTTTACTAGTGCTGTCTGTC  
CTTCATTGGTTCCCTTAGCTAAGATTGACTGTCAATTGATATTTATGAAGTTGGCATCCAAATGCTGAC  
TCCATTGTGCAAAAAACAGAGAGTTTAAAGAGAACTTGTAGGATAGAAATCACTTTAGTTTGGACTC  
TCTAAATTCTCTCCTCTTAACTCTTGCCTGCAATAGTACACCACAATTTTCCCCCTTCATCAGGTGAC  
CTCTTTGCATAAAATATTTAAAGAAGGGCTTATGCTTAGCAAGAGTCCACGTGGCCTACTTTACATA  
CAAAAACTCAAAGATTCTTATTTTGTCAATTCTCTTTTCCTTCAAAAAAATAATGAGAGGAAAA  
GAAATCTGGCACCTCATTGGCAGAGATCACCTGC

The following amino acid sequence <~~SEQ ID NO:~~ SEQ ID NO: 75> is a predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID NO:~~ SEQ ID NO: 24:

<SEQ ID NO: 75>

FFEFGEWVLETVKGRKYL FYCC

The following DNA sequence Ion69 <~~SEQ ID NO:~~ SEQ ID NO: 25> was identified in *H. sapiens*:

ATTATGACAGTTGATCCTCATAACAACCTCTGGAGCTACATACTGGGTGCTGTTGTTATTCTCACTTT  
ACAGATGAGTAACTGAAGGTAAGAAAAGTTGAGTGCCCCGCCAGGGTTGCAAAGCGAGGAAGTGGT  
GGAGCTGGGATTGGGTGTGCCACAGTCTCTTTCTTTGGGCAGACTGAACATGCCTAGGCTCCTAATGA  
TTCTGCTATCTTCTTCTTCTTCCCTGAGCCCCGGGCTGTGCAACCTGTGGCCAGCTTTCCTGACGGGG  
TACATCTCAACCCTACCCCATCCCTGAAAGAAGGGGCAACACGCAACACCCATTCACTCCCTCCCAA  
TGCTGGCACTGTGCTGGGGGCTGGGCTGTGATGGTGACGGTCCCTGCCCTCGCAAAGGATACTGTGTA  
TGGGCACTGCGCTGTGATGTGTTGGCTGTCTATAGGCACACGCAGGAGGGAGACAGGGCTGAGGAAGTG  
GAGAGAGTGAGACAGGCAAAGGGAAGCGGGAAGAGTGTTCCAGGTAGAGGGAGAGTCTGAGCAGAGGC  
CCAGAGACTGAAGAGACAGGCACATCTGAGAAGCTGAAGGGAGTCCAGTGGGTACGTGCATCAGGACG  
CATGCTGGGAGGTCCCTGGGGTGGGGTTATGAAAGGTGCCAAAGAGACTGAATGGCCACACAGAGCAC  
ACTGAAGCCACTACAGTTGCATATTCAGAAATGCCTGAGTTCCTGGA

The following amino acid sequence <~~SEQ ID NO:~~ SEQ ID NO: 76> is a predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID NO:~~ SEQ ID NO: 25:

<SEQ ID NO: 76>  
EKLSAPPRVAKRGSGGAGIGCATVSFFGQTEHAAPNDSAIFLPFPEPRAVQPVASFPD

The following DNA sequence Ion70 <~~SEQ ID NO:~~ SEQ ID NO: 26> was identified in *H. sapiens*:

CAAATACATTGAGAAAACCTCTGTACTTAATTCACCTCTTTAGGACTCATAATACATATTAGCACAGTC  
AAGACACTGAGAAAGTCCCTGCAGTAAATAAATGTGGTTTATGTTATTTAATCCAGTGTTTTAATATTA  
GGGCATTTTTGCTAAATTACTGTGTGGTAACGAATAACCTCAAATCCCAGTGGCTTATAACCACAAA  
GGTTGATTTGTTGCTCATATTTCTGTGCAGCTGTGCTTTGGCTCTGCTCCAGATGTCTTCTTCATTTT  
AGATGTAGGCTAAAGGTGCAGCCTTTTTTTCAGGAATATGCCATTCTTATGATAAAGGAAAAGAGCAA  
AAGCCATGCCAGACAATGTCTCTTAAAGTGTCTTGCCCAAATGTGTCATGTACCGTGTCTCTCACATT  
CCATTGTCCAAAGCAAATCACATGGACAAGGCCAATGTCACTAAAATGGAAAGTCACAGAGCCTCCCA  
CAGTGCAGTGTCCAGTCACATGGAAATGCACTGTATGTATATAATCCTCTTAGAGGAAACGAACAA  
TAATGTAATAATGAAATCTGCCACAAAATACACTTATTTTTTACACCAAATCTTTTTTTAATTTAATTA  
CCATATGATTGAGCAATTTTACTCTTAAGTATATATTCAAAGAAGTGTAGACAAGCATTCAAATGAA  
AACTTGTAATGAATGTTTCATAGCAGCACTATTCATAGTAGT

The following amino acid sequence <~~SEQ ID NO:~~ SEQ ID NO: 77> is a predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID NO:~~ SEQ ID NO: 26:

<SEQ ID NO: 77>  
WQISLLHYCSFPLRGLYTSAPCDWQHCTVGGSVTFHFSDIGLVHVICFGQWNRDT

The following DNA sequence Ion71 <~~SEQ ID NO:~~ SEQ ID NO: 27> was identified in *H. sapiens*:

TATGGAATGAATGAATGAATGCATTGAAAGCCTACTTACCTAAAATCTCCTATATATTCAAATGATTA  
ATCAAAGATCTTTTCAATCAACAAAATGAAGTGCATTTAGAAGGCATTGTGGGGTGAAGGAGATG  
TGGCCCTTCTCTCTGGAGCTTAGAGTCTGTCTCCACCATTGAATCTGAAAAGCTAGCCAAATACAT  
GAGTAAAAAATTAATAATCCAAATCTTTTACCAATATAACATCGGATGACATGGCTGTAATGATCAA

TAATTACCTGATTCTTTCCGATTTCGGTTTTAAATGTTAAACATTTCAGTGATGGTTAACATACTCGCTG  
ATGTGAAAGGGTGGGGGCTGACTCATTACTGGGGCTAGGACAAGGGCAAATCGTGGCTCAGAACTGTC  
ATTCAGAGCCTCTTGTGTTTGTCTCTGTAGTCAGCTCAGTCACAGTAAGGTATGTGGTTTTCTCTCAACA  
TGTCATTCTTGTGTTTATGTACTCAAATGCTTCCTTCTCATTGTCAACATCTGCTCTGAACTTTAAGTC  
AGGCCCACTTGTGTTGTAGAATAGCTCATTGACATAAAGCAAATAACACATCCCAGCCAGTCAAATCCA  
AGAAACTCAGCTTTAAAAACACATTTGTATTAAAGAATTTCACTGCAAATCCATTATTATGTTTACC  
T

The following amino acid sequence <~~SEQ ID NO: 77~~ SEQ ID NO: 78> is a predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID NO: 27~~ SEQ ID NO: 27:

<SEQ ID NO: 78>  
WICSEILYKCVFKAFLGFDWLGCVICFMSMSYSTNK

The following DNA sequence Ion72 <~~SEQ ID NO: 27~~ SEQ ID NO: 28> was identified in *H. sapiens*:

CTCTCTTATGCTCTCCAGCAAAATAACTTCAGTGACTTTATCAGAAATGGGGTTTTAGACAGGATGTT  
TCTTTGGTTAGATTTGGTATCATGTGTCTTAGGTATTTATATCTTTATCCCTTAACCATACACATACT  
TTACTTGGGGTAACCTTAGTAAATAAGATCTTCAATTAAGCTTAGAACTTTGTAGGATATTAGAAAGC  
CAGAGTCCATATCTGTTTGTGGGGACAACCTCAGACATCCCATCTTCATTGACTATATTTTTGAGTGA  
CTTTTTCGTAATTAGACTCTCTACCTTCAAATTCAGCTTCTGTGGGATCATTGATTAAA

The following amino acid sequence <~~SEQ ID NO: 28~~ SEQ ID NO: 79> is a predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID NO: 28~~ SEQ ID NO: 28:

<SEQ ID NO: 79>  
VLDRMFLWLDLVSCVLGIYIFIP

The following DNA sequence Ion73 <~~SEQ ID NO: 29~~ SEQ ID NO: 29> was identified in *H. sapiens*:

AGCTGAGCAGAGTCTATGCAGGCCCATTTGGCTGCCTAGCCAGTGGTGATCCCGCTCCACCCCTCATTT  
CTTCTTTGTTAAGAAAACCATGACCTCATTAAATATTGGACACCTATAAACCTCAGGGACCTTGGTGC  
AGCCTCCCCGCCACGTATTGGTGAGTCTAAGTCAACTCTGGTCATTTCAATCCTCTGGACATTGATTG  
CTTGAGGCTTGGGCATGAGCTGCCTCTTCATCTGAGCCTGAGCCACAGGTGCCCTCTGCACTTACCAC  
ACTGATGCACTGCGCCAGGGAGAGCTCTGTCTCGATGGAGATGAGCTGTGAGGAGCTGGTGGCTGGGC  
AGATCAGGTTGTTGTAACGGGTTTTGTTTCAGAAGGTCGTCCATCAGCTTCTGCTCAGCATGAGCCATG  
CGGCAGTCCCCTGGGTAAACACACAGACATGCTGGGCCCTTGTGCAGCTGTCCCACACTGCAGATGAC  
AGTACAAAGCAGGAGCCAAGAGGGCCAGGGGAGCACAGGCACCCCGGGGGCCGGCTGAAGCAGTGAA  
GGTGCTGGCGGACCAGGCTCTCCCTGGGGACTTCAAATGACATTCATGACAGAGCTCAGCTACTTT

The following amino acid sequence <~~SEQ ID NO: 30~~ SEQ ID NO: 80> is a predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID NO: 29~~ SEQ ID NO: 29:

<SEQ ID NO: 80>  
GDCRMAHAEQKLMDLLNKTRYNNLICPATSSSQLISIELSLAQCSIVVSAE

The following DNA sequence Ion74 <~~SEQ ID NO: 31~~ SEQ ID NO: 30> was identified in *H. sapiens*:

TCTGCAGGCCCCATTGGCTGCCTAGCCAGTGGTGATCTCGCTCCCACCCTCATTTCTTCTTTGTTAACA  
AAACCATGACCTCATTAAATACTGGACACCTATAAACCTCATGGACCCTCCTCCAGCCTCCCCACCGT  
GTACCGGTGAGTCTAAGTCAACTCTAGTCATTTTCATTCCTCTGGACATTGACTGCTTAGGGCTTGGGC  
ATGAGCTGCCTCTTCACCTGAGCCTGAGCCACAGGTACCCTCTGCACCTACCACGCTGATGCACTGGG  
CCAGGGAGAGCGCCGTCTGGATGGAGATGAGCTGTGAGGAGCTGGTGGCTGGGCGGATCAGGTTGTTG  
TAACAGGTTTTGTTTCTGAGAGGTCTGTCATCAGTTTCTGCTCGGCATGGGCCATGCGGCAGTCCCCTG  
GTAAACACACAGACATGCTGGGCCCTTGTGCAGCTGTCTCCACTGCAGCTGACAGCTATGAAGCAGG  
AGCTGAGAGGGCCAGGGAGCACAGACACCCTGAGAGCTGGCTGAAGCAGTGAAGGTGCTGGCCGGCCT  
GGCTTTCCCTGGGGACTTCAAATGACATTACGACAGAGCTCAGCTACCTCCTCCCCATGCCATACCT  
CT

The following amino acid sequence <~~SEQ ID NO:~~ SEQ ID NO: 81> is a  
predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID~~  
~~NO:~~ SEQ ID NO: 30:

<SEQ ID NO: 81>  
GDCRMAHAEQKLMDDLKTCYNNLIRPATSSSQLISIQTALSQAQCISV

The following DNA sequence Ion75 <~~SEQ ID NO:~~ SEQ ID NO: 31> was  
identified in *H. sapiens*:

CTGTGAGGAGCTGGTGGCTGGGCGGATCAGGTTGTTGTAACAGGTTTTGTTTCTGCTCGGCATGGGCCATGCGGCAGTCCCTGGGTAAACACACAGACATGCTGGGCCCTTGTGC  
AGCTGTCTCCCACTGCAGCTTGACAGCTATGAAAGCAGGAGCTGAGAGGGCCAGGGAGCACA

The following amino acid sequence <~~SEQ ID NO:~~ SEQ ID NO: 82> is a  
predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID~~  
~~NO:~~ SEQ ID NO: 31:

<SEQ ID NO: 82>  
GDCRMAHAEQKLMDDFLNKTTCYNNLIRPATSSSQ

The following DNA sequence Ion76 <~~SEQ ID NO:~~ SEQ ID NO: 32> was  
identified in *H. sapiens*:

AGCTCCATCTCGATGGAGATGAGCTGTGAGGAGCTGGCGGCTGGGCGGGATCAGGTTGTGGTAACGGG  
TTTTGTTTCTGAGAGGTCGTCCATCAGCTTCTGCTCGGCAGGGCCATGCGGCAGAACCTGCGTAAACAC  
ACAGGACCTGCTTGGTCTTGTGCAGCTGTCCCCCACTGCAGCTGACAGCTATGAAGCAGGAGCTGAG  
AGGGCCAGGGAGCACAGACACCCTGAGAGCTGGCTGAAGCAGTGAAGGGGCTGGCCGGCCTGGCTCTC  
CCTGGGGACTTCAAATGACATTATGACAGAGCTCAGCTACCTCCTCCCATGCCATACCTCTTCTCTCC  
TCCTCCTCCCTCAATCAATGAACAGCATCCACGCTCTACACATCTGATACAAAAGTGGGTATCTCTT  
CCTGACCCCTCCCTTGGTTTCAATAAGTGGCCACCAAGTCTGTCTGTCTCTCCATCTCCACGGCTAC  
AGCCATGTCCCTGCCTCCCCCGCCCTGCCCACCTTCTATTCTCTCCACCTGCACCCTGCCCCCTG

The following amino acid sequence <SEQ ID NOS. 83> is a predicted amino  
acid sequence derived from the DNA sequence of ~~SEQ ID NO:~~ SEQ ID NO:  
32:

<SEQ ID NO: 83>  
AEQKLMDDLKTRYHNLIPPSRQLLTAHL

The following DNA sequence Ion77 <~~SEQ ID NO:~~ SEQ ID NO: 33> was

identified in *H. sapiens*:

AGACACCCAGTTTTGTATCAGATGTGTAGAGCGTGGGATGCTGTTTCATTGATCGAAGGAGGAGGAGGA  
GGAAGAGGTGTGGCATGGGCGGAAGTAGCTGAGCTCTGTCTATGAATGTCATTTGAAGTCCCCAGGGAG  
AGCCTGGTCCGCCAGCACCTTCACTGCTTCAGCCGGCCCCCGGGGTGCCTGTGCTCCCTGGCCCTCTT  
GGCTCCTGCTTTGTAGCTGTCTATCTGCAGTGTGGGACAGCTGCACAAGGGCCCAGCATGTCTGTGTGT  
TTACCCAGGGGACTGCCGCATGGCTCATGCTGAGCAGAAGCTGATGGACGACCTTCTGAACA

The following amino acid sequence <SEQ ID NO: 84> is a predicted amino acid sequence derived from the DNA sequence of SEQ ID NO: 33:

<SEQ ID NO: 84>  
GDCRMAHAEQKLMDDLNN

The following DNA sequence Ion78 <SEQ ID NO: 34> was identified in *H. sapiens*:

TCTTATTTTTCCAATGTAGTTTCTAGAACCGTTAGCACAGAAAGTTATAAACATTGTATAATTATTCA  
TCTAAATGAATTGTAATAAATACTACAAAAAATTATGTCTACTGGCTGTAACATAACTTAGTAATTAT  
TCTGTTTGTATGTACTTAGGTAGCTTCCAGAGGTTTATGGCTAAATGATCTCTAATAATTATTCTTAT  
TTTCAAATTTAAATGTCAATTGCTGAATATATACATAACAATAAAGGCTTTATAACTATGTGTATTAGT  
TTGCTAGGAATGTCAACAAAATACCATAGACTATGTGGTTTAAACAGCAGAAATGCATTTTCTCAC  
AGCTTCAAAAAGGCTCTAAGTCTGGTATCAAGGTGTAGCAAATTTGGTTTTTCTAAGGCTATCTT  
CTTTTCTTTTCAGATGGCTGCCTTCTTCTGTGTCTCACATGGGCTTTTCTGTGCATATGCATCCT  
GTGTCTATGTCCAAATTTTCTTTTAAATAATGACCCAGTCATACTGAATGAAGGTCCACTCATATG  
ATTTTCATCTAAGCTTAATTACCACTTTAGAGGCCCTATTTCTAAATATGGTCATATTCTGTGGAAGTG  
AGAATTAGCTCTTCAACATATGAATTTTGGGGGACAAAATTCAGCATATATTTCTGTACATAGAGC

The following amino acid sequence <SEQ ID NO: 85> is a predicted amino acid sequence derived from the DNA sequence of SEQ ID NO: 34:

<SEQ ID NO: 85>  
NLVFPKVYLLFFQMAAFFLCPHMGFSLCICILCLCPNFLFKIM

The following DNA sequence Ion79 <SEQ ID NO: 35> was identified in *H. sapiens*:

TTCAATCTGCAATGTCCTTGCACTGACCAGGGCTCCATTTCTTTATCAGAGGCTATGATGGAAATGA  
TGTGGGAGTTCACCTGGCTGAGACGGAATGACTCTGTGCATGGGCTGGAAACCCTGTGGCTTGCTTAG  
TACACCATACAATGGTATTTACCTTGGACACCAGATTGCAGCAGGAGACAGGTAACATCATGTGACAA  
TTTTTTTTTTTTTAATTTTTACCATTGTTTTCGTAGATATTCCTAGGCCAGTTCTAAGAGTTTGTCTT  
TGGGAGATTAGTGCTGGAGGCCAGAAGTCTGAGATCAAGGTTGGTTTTTCTGAGGCCTCTCTCCTTG  
GCTTGGAAACAGCCGTTTTCTCGGTGTCTTCACATGGTCTTTTGCTCTGTACCTGTCCAAATTTCTT  
TTCTTATAAGGACATCACTTGATAAGATAAGGGTTTTCCCTCATTTTAACTTAATTACCTCTTTAA  
AGGCCCTATCTCCAAACACAGTTACATTCCGAGGTACTGCAGGTCAGGGCTTCAGCACATGAATTTG  
GGCAAGGATGGAGAGGGTTGGAAACAATAAATTCACCCGTAACACCAGATCTGACTCCTCTCACTA  
GCCTCCT

The following amino acid sequence <SEQ ID NO: 86> is a predicted amino acid sequence derived from the DNA sequence of SEQ ID NO: 35:

<SEQ ID NO: 86>  
EFTWLRNRDSVHGLETLWLAYTIQWYFTLDTRLQQETGN

The following DNA sequence Ion80 <~~SEQ ID NO:~~ SEQ ID NO: 36> was identified in *H. sapiens*:

ATTGCCTGCTCTGGAAGCATGCAAAGTGGACCAAATTCAGTCCAAAGGTCTGGGAGTAAATTTAGCTC  
TGCCACTTACTTGCCTTGTGACCTTGGACAATGATCATCTATAAAGGAGTGATGAGAAATAGTACTAC  
TTCTTTGTTATATGTTGTGTGTGTGTGTTTTGCGTGTGCGCGCATGTGTGGGTGCGCGTATTTAAAAA  
GCTAAGAAATGCAAAAGGGTCAAAAGCGCTAAGCCTGGGCTCAAGAGGTGCTCAGGGAAAGCTGATTG  
TCAGTCAAAAAGTCAAACCTGCACGTTTCTACCACTTGTGCTGGTAGCGGTAGCGGGCAATGACTC  
TTCGGGGTCTCCTGTGTGCGCTAGGCTGGCGCCGAGGTCTCGACTGTAGAAAAGATAGTTGATGTAG  
ACATACTCCAGCAAGGACAGGAACACAAAGAACAAGCACACGAGGATATAGATATCAATGGCCTTGAT  
ACAGGAAATGTTGGGGAGCTTATCCCGCAGATGTGAGTCGATGGTGGTCAGGATGAGCATTGAAGTTA  
AGCCTGTAAGCAACACAGTACAGACTTAGTCTCCTCTGATGGCTAACGTTCTTGGCAACCT

The following amino acid sequence <~~SEQ ID NO:~~ SEQ ID NO: 87> is a predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID NO:~~ SEQ ID NO: 36:

<SEQ ID NO: 87>  
GLTSMILILTTIDSHLRDKLPNISCIAIDIIYIXXXXXXXXXXXLEYVYINLYFY

The following DNA sequence Ion81 <~~SEQ ID NO:~~ SEQ ID NO: 37> was identified in *H. sapiens*:

AAACATTCAAACCTGTATCAGAGGCCAAGGCAGTTCAGGCTGAGTGAACAGCAGTGTCAAATACTGCT  
CAGGTCAGAGCTGGTGTGGCCAGTGAAC TGGGAAATTTAACATCAGAGGGGGCAATCTTGACTTTTCT  
CAAAGCATTCTCAGTGGAGTGGTAGGAGTAGGAGTGAGGTCCAGAAGATTTGGGGATGAGTGAGTGGC  
TGAGATGGGAAAACAGCAAGTGTAGAAAAC TCATACAAGTTTGGTTGTGAAGTGACAGAAAAGAGTAGC  
TAGAGAAGTGAAGGATTTTCCTTAGCTGGTAGAGATCCAGGGATGCTCCATTGCTTATGAGGGGACA  
GGAAAGAGGGGAGGGTTGAAGATATGGGATGAATGACAGGGAAGAAAGCATTCCCAAACACAGAGGAG  
GTCCCCCAAAATGGATCCTGATACAGGTAAGTGGAAAGGTTTGTGGCAGAATGTTGAGAAACCATCCA  
TTCAATGGCTTCTGTTTAGTCTCTGATATGAAAGACAAAGTCACCTGCCAGATGGATGAAAAGATAG  
TGGGATAGAAAAC TGGAAAAAACA AAAAAAGGGAAAAAGGTTTGAATAGCCTTTGAGAAGCATGAA  
GAGAGAGCTGGAGGCTTGCTGAACTCTGCTGAGAGCCAGTGGAGCTGGAGACTG

The following amino acid sequence <~~SEQ ID NO:~~ SEQ ID NO: 88> is a predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID NO:~~ SEQ ID NO: 37:

<SEQ ID NO: 88>  
LSFISETKQKPLNGWFLNILPQTFPLTCIRIHFGGPPLCLGM

The following DNA sequence Ion82 <~~SEQ ID NO:~~ SEQ ID NO: 38> was identified in *H. sapiens*:

CTTTTAAACACAGTTGGGACACTACCATTAAAGAGGAATCTTCATCACTAAAAGTAAGGTAATTTTGT  
TAGAAAATGCAATCCTAACACAAAAAATCGGATCAAAGGTAAATCACAAATAATGTTTGAGGTACAA  
AGAATCTACCACTGTGGGAAAATTTCAGGCCATAATAAACCACTCTTTACACAGGGGATCCAATGGGAG  
ACATTTGAAAACAGAAATACACTTTTCTTGGTGAGCAATGTTAGGTACTCCAGTTTCATCTTAACTT  
TGTCTTTGGTTATGGGTCTCAAGCGTCCCTATTTCTGTAAACAAACACATAAATATTCAAAGAGTAT

CTCTAAGTAAGTTGAGGTTTATAAAATAGAAATTTTCTTTTAAACATACCGAGGCTTTATTTTGTAG  
CTTTCTGTCTTTAGTAGCAGTCTTTCTTTTGGTTGCTGGTAAATAATGCAAGGTTCCATATTCCA  
TCAAGGGCTGCAAAAACAAAATGAAACAAACAGAAACAAAG

The following amino acid sequence <SEQ ID NO: 89> is a predicted amino acid sequence derived from the DNA sequence of SEQ ID NO: 38:

<SEQ ID NO: 89>  
LFLFVSFLFLQLMEYGLHYFTSNQKGKTATKDRKLKNKASV

The following DNA sequence Ion83 <SEQ ID NO: 39> was identified in *H. sapiens*:

CTCTATGTAGCCCCAACTAAACATGTCTGTGGGCTAGATTAGCCCTTTGGCCAGCTGGCCACCAGTTG  
ACCATTTCTGTAGACAAGATTCTCAGAAAGGCAACCACAGCCTCACTTTTACAGGATTATTTTCTAC  
CTAAAGAGGCATGTGCATAAATGGCAGGATGCCAGCACACCTCATTTTACTGTGTTTCACTTTATTG  
TACTTCACAAATATTGCATTTTAAACAAATGGAAGGTTTCTGGCAACCCGTGTGTCAAGCAAATCTAT  
CAGTGCCATTTGTCCAACAGCATGCGCTCCCTTCTGTCTCTGGGTACATTTTGGTAATTTTTCGGA  
CATTTTCACAGTTTCTCATTATTATTATATCTGTTATGGTGATCTGTGATCAGTGATCTTTGATATTCC  
TATTCTAATTGTTTTCAGGGAGCCACAACTGTGCCCATATAAGATGGAAACTTCCAATAAATGCTGT  
GTGTGTTCTGACTGCTCATCTGATTGGCTGTTCCCTCATCTCTCTTCTCTCCTAGGGCCTCCCTA  
TTCCCTGAGAGACATCAATACTGAAATTAGGCCAATCAATAACCCTACAATGGCCTCTATGTGTTCAA  
GTGAA

The following amino acid sequence <SEQ ID NO: 90> is a predicted amino acid sequence derived from the DNA sequence of SEQ ID NO: 39:

<SEQ ID NO: 90>  
LASWPPVDHFCRQDSQKGNHSLNFYRIIFYLKRHVHKWQDAQHTSFYCVSLYCTSQILHFLTNGRFLATLC  
QANLSVPFVQQHALPCLWVTFW

The following DNA sequence Ion84 <SEQ ID NO: 40> was identified in *H. sapiens*:

TCCAGCTCAGAACTACCAGCCTTCATCAACATGCTGAGCTTAGGGGCATGGATATGTGGAGAGCAGG  
AGCCTCAGTGGTGCCCTTGTTGCCCCAGTCTGGCTGGACACTCGCCTGGCCTGGAACACTAGTGAC  
ACCCGCGGCACGCCATCAGCTGCCCTGGGAGTCTCTCTGGACACCAAGGCTCACCATCCTGGAGGCG  
TAAGTGAGACAGTTCTGCCCCAGGAATCTGCCATGCATAGCCCTCCTTTCCCCATCTACAACCTAG  
AGGCTGTCTGAGTGAATATGACCCTCCTGGCGGTCCCCGCGGACTAGCAGTGACCTTCACTGCCTC  
GAATTTCCCTCCCACTGCCAGAACTCTGAAAGCAGCTGGGGTTGGGGTTGGGATGCCAGGGTCTCCCC  
CCGGCCCCGTCCAAGAAGGGGCTGGGGCTCTGGCTGTGGTGCCTTTCCCCACAGGCTCTGGGTGGACT  
GGAGGGACCAGAGCCCCCAGGCTCGAGTAGACCAGGACGGCCACGTGAAGCTCAACCTGGCCCTCACC  
ACGGAGACCAACTGCAACTTTGAGCTCCTCCACTTCCCCCGGGACCACAGCAACTGCAGCCTCAGCTT  
CTACGCTCTCAGCAACACGGGTGCTGACAGGGCAGGGGCTGCAGGGTTGAGGAGGGGA

The following amino acid sequence <SEQ ID NO: 91> is a predicted amino acid sequence derived from the DNA sequence of SEQ ID NO: 40:

<SEQ ID NO: 91>  
RVDQDGHVKLNALTTETNCNPELLHFPRDHSNCSLSFYALSNT

The following DNA sequence Ion85 <~~SEQ ID NO:~~ SEQ ID NO: 41> was identified in *H. sapiens*:

AGGCCATGGCAACCTGAGCCTCTGGCCTTGCTGCAAGGGGCGAGCCACTGCAGTCGCCATGGCTGTG  
GAGGGCAGTTGCTCTGGGGAGGACAGAAGACTGATGTGCTCGGACCTCTGGGATTGCAGAGCTGCTGC  
GAATGTTTGAAGTCTGTACCCCTAGAGAGGGGGCCCTGAGGCTACCGCTGAGCACAGAGATGGGCTGCCA  
CTCGAGTGGGGGGCGCAGTGGGAGAGCAGGTGCTGCCCCGCTAAGCCTGGGGTAGACTGCTCTGAACA  
CAGATCTGGGAGTTTCGCTTCTGTCTGCCTTTGCCCCCTTCCCCTTGCCCCGCACCCTGCCCTGCACC  
ACAGACCTGGGAGTTCCCCCTCCCCCACCTTCCTCCTCCCCTCCTCAACCCTGCAGCCCCTGCCCTGTC  
AGCACCCGTGTTGCTGAGAGCGTAGAAGCTGAGGCTGCAGTTGCTGTGGTCCCGGGGGAAGTGGAGGA  
GCTCAAAGTTGCAGTTGGTCTCCGTGGTGAGGGCCAGGTTGAGCTTCACGTGGCCGTCTCTGGTCTACT  
CGAGCCTGGGGGCTCTGGTCCCTCCAGTCCACCCAGAGCCTGTGGGGAAGGCACCACAGCCAGAGCC  
CCAGCCCCTTCTTGACGGGGCCGGGGGGAGACCCTGGCA

The following amino acid sequence <~~SEQ ID NO:~~ SEQ ID NO: 92> is a predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID NO:~~ SEQ ID NO: 41:

<SEQ ID NO: 92>  
RVDQDGHVKLNLALTETNCNFEHLLHPRDHSNCSLSFYALSNT

The following DNA sequence Ion86 <~~SEQ ID NO:~~ SEQ ID NO: 42> was identified in *H. sapiens*:

AATTATAGAAAATCCAAATATCCTGGCTGGGGTGAGAGTCTGTAAGCTAGCCAGAGAAAACAGCTAAG  
GCTAAGAAAATAAAATATAGGAGAAAATTCTAGAAAATCCAGATATCCTGGCTGGGGTGAGAGTCTGT  
AAGCTAGCCAGAGAAAAGAGCTGAGGCGAAGACAATAAAATATAGGAGAAAATTCTAGAAAATGAAA  
ATTGGTTTATTGTCCAGATCTGTACCCTTCTCCCCCTCTGATTGTTCACTTGATTTTAGATGGTGAA  
TGACAAATATTGGTGAAGAAAATCATTCCATGAAACACTGGTAACCATTGTCCGAAACGCCTTCATG  
GCAGCACTGCCGTGGCTCAGTACATTGCACCTGCACCTCCAAAGTGAAGGTGACTGTTACCTGAAACC  
CATGTGCCTGGCACACATGACCAGCCTTGGACACAAGAGGCCTTTGATCAGAACTGGGAGGCACTCC  
CACATTCCCACAATGAAATTCCGTGGGTGCCTGTACCCTGAGTTCATCCAACACATGGTTACTGATCA  
TGTAGGGTGTACCAGGCTATGTACAGCTTAGAGACACCATGAAGAGCAAACAGTTAGCTTATGGGGA  
GTGCCTAACGCACACCTGCCATTTACATCTTTGTCTCATGATTCTTCCCACTGAACCAATGGCACTG

The following amino acid sequence <SEQ ID NOS. 93> is a predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID NO:~~ SEQ ID NO: 42:

<SEQ ID NO: 93>  
LEFSPIFYCLRLSSFLWLAYRLSPQPGYLDLEFSPIFYFLSLSCFLWLAYRLSPQPGY

The following DNA sequence Ion87 <~~SEQ ID NO:~~ SEQ ID NO: 43> was identified in *H. sapiens*:

ATGTCTCTTTGTTTAATTAGTTTTGGGTGGCTCAATTTTTAGGACTATTGTTCTGTTTTCTTTCCT  
CAGTTTTAATTGCCAATTTAAGCTCTGGACAAAATCTGAAAATTTACAACCTGGAATTTTACAAGAAG  
CCTCGTATTATAAAGTTTGTGCTTGGTTTGTGAGACTTGGGTTGTGGACAGTTTGAATAAGGTTTTCT  
ATAGAAAAGCATCAGTGAAAGAAAGAAAATAAAATATATTTTAAAGTAACTTTCCTCCTTCCAATAAA  
ACTTCTAAAAGTCAATACATATGACTTTTTCAAAAACATAAAAAAAATGCCAGATATAGGGCTCTTC  
ACCCAAAGATTAAAATAAGTTTTTTTTTAAACAAACAAACAAACAAACAAACAAACAAACAAACAAACAA  
ATAAAAGTGCCTCTTGGGTAGAATATGCAATGAAAGTGTAGGTTGGGTCCAGAGAAACAGTTGTGTGCA  
GACATCAATTCTCAGGAGACAATGAGGAGTGAAGCAAACAAGATTGAATGGCGAAAGTTGAAGGGTG



ATACTGTTGAAATAG

The following amino acid sequence <~~SEQ ID NO:~~ SEQ ID NO: 94> is a predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID NO:~~ SEQ ID NO: 43:

<SEQ ID NO: 94>  
FNFPFNLVCFTHCLLRIDVCTQLFLWTQPTLSLHIL

The following DNA sequence Ion88 <~~SEQ ID NO:~~ SEQ ID NO: 44> was identified in *H. sapiens*:

TCTCCTTCATAGATTACTCTTTTCATTACCCCTTGTGCCATATAACATCTTAGCTGTGTGAGACCAGGG  
AGAAAGGTGTTGGTCACCTACCCCTTGGCAGTAGGAAGTCTTTCAGATCTGATATTAATTGTGTATTCA  
AATGTCAAGGTATCCTAGTACAGAAAATATCAGTGGGTATTCTGATAAGGAAAATACTATTGCTAA  
TTTAGAAAAGAGAATATGCTAAAAGTTACACCTCAGAGGGAATATCATTGATATGGTGAACAGGAA  
ACCCAAGAAGTTGTGAATTCCATTCAAAAGATGAACTGCTTAGAAGATAATGTAAGGTTCTCACCCA  
ACATGAGCACTGCACTCAAGGCCATTTCTAGGATGAAAGGGTGGGATGATTATCTATTATCCAGCCA  
TGAATTATTTCTGTGGCCTCCAGAAGATGCAACTGAATTGTAGCTATGTGTCCAGAATCGGTTCTTCT  
TGGTGGGTCTTGGTCTCGCTGACTTCAAGAATGAAGCCGTGGACCCTCACGGTGAGTGTTCAGTTCT  
TTAAAGATGGTGTGTCTGGAGTTTGTTCCTTCAGATATTCAGATGTGTCCCGGAGTTTCTTCTCTCTG  
GTGGGTTTTGTGGTCTTACTGACTTCAGGAGTGAAGC

The following amino acid sequence <~~SEQ ID NO:~~ SEQ ID NO: 95> is a predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID NO:~~ SEQ ID NO: 44:

<SEQ ID NO: 95>  
ASRRCNIVAMCPESVPSGGFLVSLTSRMKPWTLTVSVAVLKDGVS

The following DNA sequence Ion89 <~~SEQ ID NO:~~ SEQ ID NO: 45> was identified in *H. sapiens*:

AGCAGTGGCATGATAGGTTTCACTTCTGGAGTCTATTGTGTGTGTTTGGGGCCCCGTAAAATATTAGA  
AAGCGATGGAAATTTTAGGGCTCCGTATAATATTGTATTTACATAACCACTCAGCTCTCAACTACTCT  
CAAAGAGTACCTACTGAAGATCATGTCTTCAACTTGCTAAGGCTGATCTGGGTATTAGCCAACTCTCT  
GAGTTGAAGGAAACAGATGTAACCAGGTCATCTCATGAAATGGAGCTCTATTGTTTCAGTAGATGAGGT  
AGTAAGTGGAGCAGACACTGCTGTTTGCCTTCTCCCTGGCTAACAGAGGACTGACATTGACTGGATTA  
AAGGATAGAGCTACCCTGTACTTCAGGCGGCTGCATTCCTCCCTGCCGGCACCAGTGATTGATTAGG  
AATGGGTAGAGGTGCAATTCTGACCAATGAGACGTGGGAGAAGCTTGCTGGGGAGTTGGTGGGGTAT  
TTTCCTTTTGCTTTAAAAGGGGCAAAGGAAAGGTACATTCCTTTTTTTTCTTTTTCATCTCTGGA  
TGTCATTGCCTGGAACCTTTTGCAGGCTTCTGATACCATGAG

The following amino acid sequence <~~SEQ ID NO:~~ SEQ ID NO: 96> is a predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID NO:~~ SEQ ID NO: 45:

<SEQ ID NO: 96>  
GAILTNETWEKLAGELVGYFPFALKGAKERYIPFFFPFSSLDV

The following DNA sequence Ion90 <~~SEQ ID NO:~~ SEQ ID NO: 46> was identified in *H. sapiens*:

CCCAGCAGAACATAAGGTTGTGGCTGGGACATGAATGCACCCCAGGGAGCACTGAAC TGCTCTGAGCT  
 GCCGACTAGGGCCATAGGCTAGCTATGTGGGCCCATATTGAGGTAGGGGCTGAGCAGTCCCAGCGGCA  
 CCGCCCAGGCTGCCTGCTCTGGGGTCCCTGCAAAAGCCGCGCTGAGCCCACGGACTTCCGGGTCGTA  
 AGCACGTGGGGCCTGAACATCTGCTTGGCTGGGTGAGCTGCTATGACAATGCCCGGGCGATCGTGCCC  
 TCCAGCGCTGCCTGCATGCCGAGGAGGAAGCGAGTCCCCACGTGAATAATCGGGCTCCGCGGCTCAC  
 AGCGGATGTGAGAAGGTAGGTGCTCTGCTCCTTTTCGCTCCGTTTTCTTCCTCATGGAACTTTC  
 TTCAGCTGCAGAAAAGCTGGTCCTTTTCTTTCTGCTGGCCACAGCTTCTCCTGCAAAGTCAAAT  
 TTGTTCTTCGGTCTCCTCTGGTGACATTCTCTCTTCATCTCCTTTCTCTTCCTTCGTCTGCTCTTC  
 CTCCATCTTCTCGCCATCACCTTATCGCCCGCTCCTCTTCCCTCTCGCCCCGAGCCTGCGCTCCCG  
 CCGGGGGCGCTCCGGACACACTGTCTGCGC

The following amino acid sequence <SEQ ID NO: 97> is a predicted amino acid sequence derived from the DNA sequence of SEQ ID NO: 46:

<SEQ ID NO: 97>

KRECHQRRPKEQILTLQEKLWARQKEKDQLFLQLKKVSMRKNNGERSRATPSDIRCEPAEPDYSRGDSL  
 PRHAGSAGGHDRPGIVIAADPAKQMFVRPHVLTTRKSVGSAAAFAGTPEQAAWAVPLGLLSPYLNMGPHSPM  
 ALVGSSEQFSAPWGAFMSQPQP

The following DNA sequence Ion91 <SEQ ID NO: 47> was identified in *H. sapiens*:

CTTTTTCTGCAGCTGAAGAAGTTTCCATGAGGAAGAAAAACGGAGGCGAAAGGAGCAGAGCGACCTGA  
 CCTTCTGACATCCGCTGTGAGCCGGCGGAGCCCGATTATTCACGTGGGGACTCGCTTCCTCCTCGGCA  
 TGCAGGCAGCGCTGGAGGGCACGATCGCCCGGCATTGTATAGCAGCTGACCCAGCCAAGCAGATGT  
 TCAGGCCCCACGTGCTTACGACCCGGAAGTCCGTGGGCTCAGCGCGGCTTTTGCAGGGACCCAGAG  
 CAGGCAGCCTGGGCGGTGCCGCTGGGACTGCTCAGCCCCCTACCTCAATATGGGCCCACATAGCTAGCC  
 TATGGCCCTAGTCGGCAGCTCAGAGCAGTTCAGTGCTCCCTGGGGTGCATTTCATGTCCCAGCCACAAC  
 CTTATGTTCTGCTGGGCCACTTTCAGCACACCCAGACAGGGTTTCTCTTCTGGTGCTGCTCTGTCTTT  
 GAAACCGCAGATAGACCATGCTAACCAGCACACAGGTTTCCCTGGTCCATCTCCTGACCCCCATGC  
 ATGCCCAGGCTCTGCATCCAGGCCCTAGACTCCTTGCCTAATCCAGCTCCCCGCGAAGATGCAGCCA  
 GCAGGAACGTCTAGGTTTTGCAGCTACCAACCAACCAGGCCCTCA

The following amino acid sequence <SEQ ID NO: 98> is a predicted amino acid sequence derived from the DNA sequence of SEQ ID NO: 47:

<SEQ ID NO: 98>

GSAGGHDRPGIVIAADPAKQMFVRPHVLTTRKSVGSAAAFAGTPEQAAWAVPLGLLSPYLNMGPHSPMALVG  
 SSEQFSAPWGAFMSQPQPYVLLGHFQHTQTGFL

The following DNA sequence Ion92 <SEQ ID NO: 48> was identified in *H. sapiens*:

TCTGAAGCTGCCGTGTATGAACATACATCTACACATACACACACACACACACACACACACACACACAC  
 AC  
 TACGTTTATATTATGTTACTTTTAATGGATGAATATGTATCGAAGCCCCATTTTATTACATACACGT  
 GTATGTATATCCTTCCCTCCCTTCCCTTATTATTTATTAATAATTTTCGTTTATTTATTTCTTT  
 TCTTTTGGGGCGGCGCCGCTGGTCTTCTGCTCTGCGCTCTGGTGACCTCAGCCTCCCAAATAGCTG  
 GGACTAGGGGATCTCTTAAGCCCGGGAGGAGAGTTAACGTGGGCTGTGATCGCACACTTCCACT  
 CCAGCTTACGTGGGCTGCGGTGGGGTGGGGTGGGGTGG

The following amino acid sequence <~~SEQ ID NO:~~ SEQ ID NO: 99> is a predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID NO:~~ SEQ ID NO: 48:

<SEQ ID NO: 99>  
CIEAPFHLHTRVCISFLPSFIHYLLIIFVYLFSLGPARLVFCLCALVTSASQIAGTTGDL

The following DNA sequence Ion93 <~~SEQ ID NO:~~ SEQ ID NO: 49> was identified in *H. sapiens*:

TCTATAGCTCCCACCCTATTACAGAAGCCTGGTGGATATCTTCTGACCGTAGCACTTTATAGACAAC  
CCAGTAGAAGATATTGAAGATGAGGAAAGTGAAAGGGAAGACAGCCCGGGAGATGGTGTCAATTCTCT  
TGGCTCAGTCCACGTAGAGTTTCCGCGTGGTTTCTCCTTCCCTTAGAAGAGGGGCTGGAGGTTGGGGA  
CTATAAATGCCAGAACCTTCCATTGGACCTCCATCTCTTGCCTGCAGGCAGTGGCCCAAGCCATAGCC  
ACGGAAATAGAAACGACTTTCTTGGATGATATCTTCTCCTGGAATTACAAGGAAGAAACGGCAGAAT  
TTGAGGTCAAAGCTCAAAGGCAGAGGGATAGAGAACAGACCACCCATCAATATCTCATAGGGAATGTT  
ATGCAGACAAGGTGCCTTGGGTACACAGGCCCATTCATGCTTTTTATGGTCACAACACTACTCATGA  
GATAGATGTATGCTAAGCAGCTCTACGTGCTATATATAGTGTATGTCATGATTCCATGGCAGATAGGC  
TCTAAGCTAC

The following amino acid sequence <~~SEQ ID NO:~~ SEQ ID NO: 100> is a predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID NO:~~ SEQ ID NO: 49:

<SEQ ID NO: 100>  
QEEDIIQESRFYFRGYGLGHCLQARDGGPMEGSGIYSPQPPAPLLREGETTRKLYVDAKRIDTISRVPFP  
TFLIFNIFYWVYKVLRSEDIHQ

The following DNA sequence Ion94 <~~SEQ ID NO:~~ SEQ ID NO: 50> was identified in *H. sapiens*:

TCATTAATTTATTACTAAGCACTAGTGGAAATCTAACTTTATTTACCCCCATCAACTTGGCTTGTGTT  
ACCAGAACAAGAAGGCAACCAACATGAAATGCTTTGGGAAATGACCCACTAGACTGAACGTCCAAAT  
CACTTTTGTCTGTACATACTGTATGACAGCGTTCTCAAACCTCTGTGTGCAGAACACCCCTGAGAAC  
TTGTTAAATAACGGTTCCTGAGCCCCAGCCAGAGCGTATGGTTCAGTAGTTTGGGGGTGAGGTTGG  
AGAATTTGCATTTGTAGTAAGTTCCAGGTGATACTGCTGCTGCCACTGGTCCTGGACTACACTTTGA  
GGAGCCTGCTGAACACAGCACCTCAGCCTCTACTTGAAGGACAACTAGCTTCTTACTGGATTCACTG  
GCAAGATTAAGCCCACTGGTTCTCAAACACAATCCCCTTGGGAACACCAGTGCTCTACCAC

The following amino acid sequence <~~SEQ ID NO:~~ SEQ ID NO: 101> is a predicted amino acid sequence derived from the DNA sequence of ~~SEQ ID NO:~~ SEQ ID NO: 50:

<SEQ ID NO: 101>  
ENRCHTVCSKSDLVQSSGSFPKAFHVWLPSCSGNTSQVDGG

The following DNA sequence Ion95 <~~SEQ ID NO:~~ SEQ ID NO: 51> was identified in *H. sapiens*:

TCAGCATTTTGTGGCAAGTTTTCTGAGACCTCTGGCCATTAAGCCTTCACTGGGGGTGTGGTCTGTC  
TCTGAAGTCTACTCCCATGCAAATGGATTTTGACGGTAATGGTCAACACGCCTGGGCAAAGAATGGG  
TCATGCCCATTCTTACTGGAAAGATTTGGAACATTTCCCTGTAAATTGTATATTATTTGGATTTATTT  
CTCTAACTGAATGGACGTTTTTCTATATGTTGCCAAATCTTCCAGTAATGCTTCTCATTCACTGTAAT

TAAGGAGATTAAAAGTGACAGCATTTTCTTGTTGAATTAATGATGGGTTTTTACATTTTCACTTTTC  
AAAAAATATAATCACCCTGTGTTTTGCAGAAACAATAGTATGATAAAATCAAGGAGAAATACAATA  
GAGAAGAGGCCAAAAAATCTCAATATTATGATTATAA

The following amino acid sequence <SEQ ID NO: 102> is a predicted amino acid sequence derived from the DNA sequence of SEQ ID NO: 51:

<SEQ ID NO: 102>  
AIKPSLGVSSEVYSHCKWILTVMVNTPGQRMGHAHSYWKDLEHFPVNCILFGFISLTETWTFYMLPNLP

The following DNA sequence Ion31d6 <SEQ ID NO: 103> was identified in *H. sapiens*:

GGAATTCCCGGGATGGTCACCAACATCAGCGTCCCCACCCAAGTCAACATCTCCTTCGCGATGTCTGCCAT  
CCTAGATGTGAATGAACAGCTGCACCTCTTGTCATCATTCCTGTGGCTGGAAATGGTTTGGGATAACCCAT  
TTATCAGCTGGAACCCAGAGGAATGTGAGGGCATCACGAAGATGAGTATGGCAGCCAAGAACCCTGTGGCTC  
CCAGACATTTTCATCATTGAACTCATGGATGTGGATAAGACCCAAAAGGCCTCACAGCATATGTAAGTAA  
TGAAGGTCGCATCAGGTATAAGAAACCCATGAAGGTGGACAGTATCTGTAACCTGGACATCTTCTACTTCC  
CCTTCGACCAGCAGAACTGCACACTCACCTTCAGCTCATTCTCTACACAGTGGACAGCATGTTGCTGGAC  
ATGGAGAAAGAAGTGTGGGAAATAACAGACGCATCCCGGAACATCCTTCAGACCCATGGAGAATGGGAGCT  
CCTGGGCCTCAGCAAGGCCACCGCAAAGTTGTCCAGGGGAGGCAACCTGTATGATCAGATCGTGTCTATG  
TGGCCATCAGGCGCAGGCCACGCTCTATGTCTATAAACCTTCTCGTGCCAGTGGCTTCTGTTGCCATC  
GATGCCCTCAGCTTCTACCTGCCAGTGAAGTGGGAATCGTGTCCATTCAAGATAACGCTCCTGCTGGG  
CTACAACGTCTTCTCTACCTGCCAGTGAAGTGGGAATCGTGTCCATTCAAGATAACGCTCCTGCTGGG  
TCGCCCTGTGCCTGTCCCTGATGGTGGGACGCTGTGGAGACCATCTTCATCACCCACCTGCTGCACGTG  
GCCACCACCCAGCCCCACCCCTGCCTCGGTGGCTCCACTCCCTGCTGCTCCACTGCAACAGCCCGGGGAG  
ATGCTGTCCCACTGCGCCCCAGAAGGAAATAAGGGCCCGGGTCTCACCCACCCACCTGCCCGGTGAGG  
TGTGA

The following amino acid sequence <SEQ ID NO: 105> is a predicted amino acid sequence derived from the DNA sequence of SEQ ID NO: 103:

<SEQ ID NO: 105>  
GIPGMVTNISVPTQVNISFAMSAILDVNEQLHLSSFLWLEMVWDNPFISWNPEECEGITKMSMAAKNLWL  
PDFIIEIEMDVKTPKGLTAYVSNEGRIRYKPKMKVDSICNLDFYFPDQQNCTLTFFSSFLYTVDSMLLD  
MEKEVWEITDASRNILQTHGEWELLGLSKATAKLSRGGNLYDQIVFYVAIRRRPSLYVINLLVPSGFLVAI  
DALSFYLPVKSGNRVPFKITLLLGYNVFLLMMSDLLPTSGTPLIGVYFALCLSLMVGSLLLETIFITHLLHV  
ATTQPPPLPRWLHSLLLHCNSPGRCCPTAPQKENKGPGLTPTHLPGEV

The following DNA sequence Ion31c4 <SEQ ID NO: 104> was identified in *H. sapiens*:

TGGTACCGGTCCGGAATTCCCGGGATCACGCCCTGCCTTGGGGCCCCCTCTCATATAGGGAGCACAGGGTTG  
CTCTCCTTCATCTCACACATTCGATGTCCACTACAGGAAGGGCGTTACTTTCACCATCAATTGCTCAGGG  
TTTGGCCAGCACGGGGCGGATCCCACTGCTCTGAATTCAGTGTTTAATAGAAAGCCCTTCCGTCCGGTCAC  
CAACATCAGCGTCCCCACCAAGTCAACATCTCCTTCGCGATGTCTGCCATCCTAGATGTGAATGAACAGC  
TGCACCTCTTGTCTATCCTTCTGTGGCTGGAAATGGTTTGGGATAACCCATTTATCAGCTGGAACCCAGAG  
GAATGTGAGGGCATCACGAAGATGAGTATGGCAGCCAAGAACCCTGTGGCTCCAGACATTTTCATCATTTGA  
ACTCATGGATGTGGATAAGACCCAAAAGGCCTCACAGCATATGTAAGTAATGAAGGTGCGATCAGGTATA  
AGAAACCCATGAAGGTGGACAGTATCTGTAACCTGGACATCTTCTACTTCCCCCTTCGACCAGCAGAACTGC  
ACACTCACCTTCAGCTCATTCTCTACACAGTGGACAGCATGTTGCTGGACATGGAGAAAGAAGTGTGGGA  
AATAACAGACGCATCCCGGAACATCCTTCAGACCCATGGAGAATGGGAGCTCCTGGGCCTCAGCAAGGCCA

CCGCAAAGTTGTCCAGGGGAGGCAACCTGTATGATCAGATCGTGTCTATGTGGCCATCAGGCGCAGGCC  
 AGCCTCTATGTCATAAACCTTCTCGTGCCAGTGGCTTTCTGGTTGCCATCGATGCCCTCAGCTTCTACCT  
 GCCAGTGAAAAGTGGGAATCGTGTCCCATTAAGATAACGCTCCTGCTGGGCTACAACGTCTTCTGCTCA  
 TGATGAGTGACTTGTCTCCCAACAGTGGCACCCCTCATCGGTGTCTACTTCGCCCTGTGCCTGTCCCTG  
 ATGGTGGGAGCCTGCTGGAGACCATCTTCATCACCCACCTGCTGCACGTGGCCACCACCCAGCCCCACC  
 CCTGCCTCGGTGGCTCCACTCCCTGCTGCTCCACTGCAACAGCCCGGGGAGATGCTGTCCCACTGCGCCCC  
 AGAAGGAAAATAAGGGCCCGGTCTCACCCCAACCCACCTGCCCGGTGTGAAGGAGCCAGAGGTATCAGCA  
 GGGCAGATGCCGGGCCCTGCGGAGGCAGAGCTGACAGGGGGCTCAGAAATGGACAAGGGCCAGCGGGAACA  
 CGAGGCCCAGAAGCAGCACTCAGTGGAGCTGTGGTTGAGTTTACGCCACGCGATGGACGCCATGCTCTTCC  
 GCCTCTACCTGCTCTTCATGGCTCCTCTATCATCACCGTCATATGCCTCTGGAACACCTAGGCAGGTGCT  
 CACCTGCCAACTTCAGTCTGGAGCTTCTCTTGCCTCCAGGGACTGGCCAGGTCTCCCCCTTTCTGAGTA  
 CCAACTATCATATCCCCAAGATGACTGAGTCTCTGCTGTATTCCATGTATCCCAATCCGGTCTGTGAT  
 CAATTCCAATCCCAGACATTTCTCCCTGTTCTGCTGATTTTGTGGCTTCTCTCAGTCTACCATATGGTTC  
 TAGGTCCCTCTTACGTCATCTGCATAGCAGACTATACCTCTTCTGCCCCTGACTTGCCCCAATAAATAATT  
 CTGCAGAGAAAAAAGGGCGGCCGCTCT

The following amino acid sequence <SEQ ID NO: 106> is a predicted amino acid sequence derived from the DNA sequence of SEQ ID NO: 104:

<SEQ ID NO: 104>

GTGPEFPGSRPALGPLSYREHRVALLHLTHSMSTTGRGVFTTINCSGFGQHGADPTALNSVFNRKPFPRVT  
 NISVPTQVNISFAMSAILDVNEQLHLSSFLWLEMVWDNPFISWNPEECEGITKMSMAAKNLWLPDIFIIE  
 LMDVDKTPKGLTAYVSNRIRYKKPKMVDISICNLDFYFPDQONCTLTFSFLYTVDSMLLDMEKEVWE  
 ITDASRNILQTHGEWELLGLSKATAKLSRGGNLYDQIVFYVAIRRRPSLYVINLLVPSGFLVAIDALS FYL  
 PVKSGNRVPFKITLLLGYNVFLMMSDLLPTSGTPLIGVYFALCLSLMVGSLLETIFITHLLHVATTQPPP  
 LPRWLHSLLLHCNSPGRCCPTAPQKENKGPLTPHLPVGKEPEVSAGQMPGPAEAEELTGGSEWTRAQREH  
 EAQKQHSVELWLQFSHAMDLFRLLYLLFMASSIITVICLWNTAGAHLPSTVWSFSCLOGLARSPFPPEYQ  
 LSYPRQLSLCCIPICIRSCSIPIPDISPCSCILLASFSPTIWFVPLTSSAQTIPLLPADLPNKFCREKKK  
 KKKKKKKKKKKKKRAAA

The following DNA sequence Ion52 <SEQ ID NO: 107> was identified in *H. sapiens*:

CTGGAAAGGTCCATCGCGTGGCTGAACTGCAACCACAGCTCCACTGAGTGCTGCTTCTGGGCCTCGTGTTCC  
 CCGCTGGGCCCCCTGTCCATTCTGAGCCCCCTGTGAGCTCTGCCTCCGCAGGGCCCGGCATCTGCCCTGCTG  
 ATACCTCTGGCTCCTTCACACCTACAGAAAGACAGAGACTCAGCCATGGGCTGCAAATGTACCTGTGGAG  
 GGAGGGAGACAGGGAAGGAGGCAGGAGCAGAGAAGTGGAGGTGGGGGAAGAGGAATGTGACTTCCCTCACC  
 GGGCAGGTGGGTGGGGGTGAGACCCGGGCCCTTATTTTCTTCTGGGGCGCAGTGGGACAGCATCTCCCC  
 GGGCTGTTGAGTGGAGCAGCAGGGAGTGGAGCCACCGAGGCAGGGGTGGGGCTGGGTGGTGGCCACGTG  
 CAGCAGGTGGGTGATGAAGATGGTCTCCAGCAGGCTGCCACCATCAGGGACAGGCACA

The following amino acid sequence <SEQ ID NO: 109> is a predicted amino acid sequence derived from the DNA sequence of SEQ ID NO: 107

<SEQ ID NO: 109>

CLSLMVGSLLETIFITHLLHVATTQPPPLPRWLHSLLL

The following DNA sequence Ion 111 <SEQ ID NO: 108> was identified in *H. sapiens*:

CCCAGCACTTTGGGAGGCCAAGGTGGGTGGATCACTTCAGTTCAGGAGTTTGAGACCAGCCTGGGCAA  
 CATGGTGAAACCTCATCTCTTAAAAAAAAAAAAAAAAAAAAAAAAATTAGCCAGGCCTGGTGGTGCGCCTG  
 TAGTCCCAGCTACTTTGGGAGGCTGAGGCTGAGACAGGAGGATCATTGAGCCCAGGACATGGAAGTTG  
 CAGTGAGCTGAGAGCATGCCACTCTACTCCAGCCTGGGTGACAGAGCAAGATCCTGTCTCAAAAAAAA  
 AAAAAAAAAAAGGAGAGAGAGAACTGCGGCCCTGCCCTCTTGCCTTATCTCTCTCCAGCATGGA  
 TGTGGATAAAACCCCAAAGGCCTCACAGCATATGTAAGTAATGAAGGTCGCATCAGGTATAAAAAAC  
 CCATGAAGGGGGACAGTATCTGTAACCTGGACATCTTCTACTTCCCCTTCGACCAGCAAACTGCACA  
 CTCACCTTCAGCTCATTCTCTACACAGGTAAGTTGCAGTGAGGTCTCAGGGATGGGGTGAATGAGAG  
 CAACCAACAAATTTAAAGAACTATGAGTAAATGGTGACC

The following amino acid sequence <SEQ ID NO: 110> is a predicted amino acid sequence derived from the DNA sequence of SEQ ID NO: 108:

<SEQ ID NO: 110>  
 LSSSMDVDKTPKGLTAYVSNEGRIRYKKPMKGDSICNLDFYFPDQQNCTLTFSSFLYT

Please replace the paragraph beginning on page 102, line 3 and ending on page 103, line 3 with the following:

-- A brief description of the searching mechanism follows. The BLAST algorithm, Basic Local Alignment Search Tool, is suitable for determining sequence similarity (Altschul *et al.*, *J. Mol. Biol.*, **1990**, *215*, 403-410, which is incorporated herein by reference in its entirety). Software for performing BLAST analyses is publicly available through the National Center for Biotechnology Information (<http://www.ncbi.nlm.nih.gov/> [www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov/)).—

Please replace the paragraph on page 24, lines 5-17 with the following paragraph:

-- Another aspect of the present invention is directed to vectors, or recombinant expression vectors, comprising any of the nucleic acid molecules described above. Vectors are used herein either to amplify DNA or RNA encoding ion-x and/or to express DNA which encodes ion-x. Preferred vectors include, but are not limited to, plasmids, phages, cosmids, episomes, viral particles or viruses, and integratable DNA fragments (*i.e.*, fragments integratable into the host genome by homologous recombination). Preferred viral particles include, but are not limited to, adenoviruses, baculoviruses, parvoviruses, herpesviruses, poxviruses, adeno-associated viruses, Semliki Forest viruses,

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cont

vaccinia viruses, and retroviruses. Preferred expression vectors include, but are not limited to, pcDNA3<sup>TM</sup> vectors (Invitrogen) and pSVL<sup>TM</sup> vectors (Pharmacia Biotech). Other expression vectors include, but are not limited to, pSPORT<sup>TM</sup> vectors, pGEM<sup>TM</sup> vectors (Promega), pPROEXvectors<sup>TM</sup> (LTI, Bethesda, MD), Bluescript<sup>TM</sup> vectors (Stratagene), pQE<sup>TM</sup> vectors (Qiagen), pSE420<sup>TM</sup> vectors (Invitrogen), and pYES2<sup>TM</sup> vectors (Invitrogen).

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